SEBURY

BC-3100 & BC-3000
Digital Keypad

Introduction

The BC-3100 & BC-3000 uses the latest microprocessor technology to operate door strikes and security systems that require a momentary (timed) or latching dry contact closure.

All programming is done through the keypad. Codes and operating parameters are stored within the microprocessor and can not be lost due to power failure.

The BC-3100 has 1 master, and can store 100 user 6 digit codes, the BC-3000 can store 500 prox cards and user 4 digit codes. Each 4 digit code has 10,000 possible combinations. The unit has one relay with 5 Amp contacts.

CONTENTS **Page**

Introduction …… 2
Product Specifications …… 3
Mounting & PCB Diagram …… 4
Wiring Diagram …… 4-5
Engineer Programming Information and Notes …… 5
Engineer Programming
- Factory Default Setting …… 6
- Changing Master & User Codes…… 7
- Setting Functions of Master & User …… 7
- Set Door Relay Strike …… 7
- Set Door Open Detection Time …… 8
- Security Arrangement …… 9
- Exit Engineer Programming Mode …… 9

Resetting Non Volatile Memory …… 9
Installer Information & Notes …… 9
Technical Specifications …… 10

Specifications

1. **Programmable Functions**
   Relay latching or momentary
   Relay activate independently or together
   Change Codes 1 master, 100 users (BC-3100)
   Change Codes 1 master, 500 users & prox cards (BC-3000)
   Door open detection

2. **Programmable Timers**
   Door relay time 00-99 seconds
   Door open detection 00-99 seconds
   Alarm time 00-99 minutes

3. **Wiring Connections**
   Electric lock
   External bell
   External Push Switch
   Magnetic Contacts
   Alarm

4. **Keypad:**
   13 keys, bell button

5. **Programming memory:**
   Non volatile Eeprom memory

IMPORTANT INFORAMTION
There are no user serviceable parts contained within the BC-3100 & BC-3000 access control keypad.

If holes are to be drilled before mounting onto a wall, check for hidden cables and/or pipes before drilling. Use safety goggles when drilling or hammering in cable clips.

Every effort has been made to provide accurate information, however slight variations can occur. We also reserve the right to make changes for product improvement at any time

NOTE
PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE ATTEMPTING TO INSTALL THE BC-3000/BC-3100.

Mounting

1. Attach the rear plate to a single or double gang electrical box or secure to the wall firmly with at least three flat head screws.

2. When wiring has been completed, attach the front cover to the rear plate.

Figure1

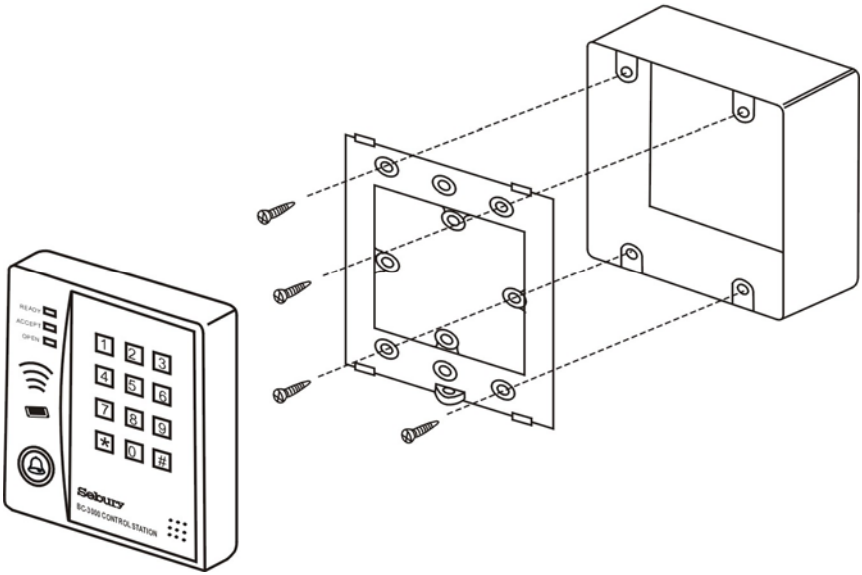
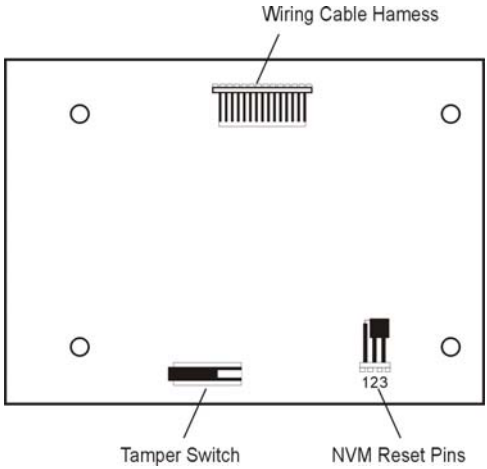


Figure 2



The front cover can be permanently secured by using the short screw supplied

BC-3100 & BC-3000 Printed Circuit Board

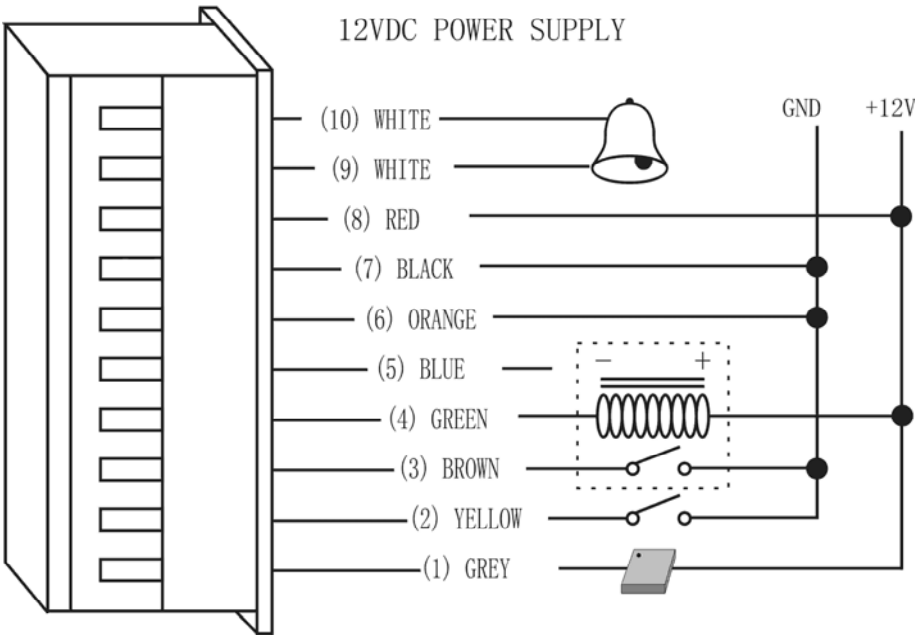
Wiring

1. Unplug the cable harness and connect the necessary cables, (See Figure 3).
2. Tape any wires that are unused.
3. Plug the cable harness , (See Figure 2)
4. Attach the front cover, (See Figure 1).

Terminal Wire Connector 1 Function			
10	Bell1	White	Bell Push Button
9	Bell2	White	Bell Push Button
8	12V	Red	(+) 12Vdc Positive Regulated Power Input
7	GND	Black	(-) Negative Regulated Power Input
6	COM	Orange	Door Strike Relay Com
5	NO	Blue	Door Strike Relay N/O
4	NC	Green	Door Strike Relay N/C
3	D_IN	Brown	To Door Contact Then To Door In
2	OPEN	Yellow	To Door Remote Control Button Then Negative
1	ALARM	Grey	Alarm

DO NOT PLUG ADAPTOR OUR TRANSFORMER INTO MAINS UNTIL ALL WIRING HAS BEEN COMPLETED AND THE FRONT COVER SECURED.

Wiring Diagram Electronic Door Release/Holder Hookup



Power Up

1. After all wiring is complete and the unit face plate is attached to the back plate, apply 12Vdc power to the unit. Ready LED illuminated and accept LED flashing.

Engineer Programming Mode BC-3100 & BC-3000

To enter programming mode
Press: **[*] [9999] [#]** within 5 seconds, Ready and Accept LED illuminated, Open LED flashing.

Note
Press: **[#]** to save changes and exit engineer programming, when all programming has been completed otherwise changes will not be saved.

Changing Master & User Codes BC-3100 & BC-3000

In engineer programming mode:

To change Master code
Press: **[0] [new master code] [#] [re-enter new master code] [#]**
Upon acceptance Open LED illuminates and stops flashing. Press **[*]** after changing the master code, otherwise unit will disregard the new code and revert back to the factory default code.
Note: the master code must be 4-8 digit number.

Adding User Codes BC-3100

To Add User and User Codes BC-3100
Press: **[1] [user code] [#] [user identification] [#]**
Note: the user identification must be 3 digit number within 000-999 and the user door release must be 6 digit code.

Adding User Codes & Cards BC-3000

To Add User cards & codes BC-3000
Press: **[1] [read card] [user identification] [#]**
Note: the user identification must be 3 digit number, if adding more than 1 card, read the next card after inputting the 3 digit code for the previous card, when you have finished adding all cards press the **[#]** key. 1st card must be 000 up to 999.
Then the BC-3000 control station added a user card it was auto added a user code with 1234.

Delete User Code BC-3100

There are 3 options to delete a user card or cards, in engineering mode.
a.) Press: **[2] [0 0 0 0] [#]** to delete all user codes.

b.) Press: [2] [user door release code] [#] to delete used this door release code of all users.
c.) Press: [2] [user identification number] [#] to delete individual user
Then press [#] again to exit engineer programming.

Delete User Card or Cards BC-3000

There are 3 options to delete a user card or cards, in engineering mode.

a.) Press: [2] [0 0 0 0] [#] to delete all user cards
b.) Press: [2] [read card] [#] to delete individual user card
c.) Press: [2] [user identification number] [#] to delete individual user card

User Operation Mode BC-3000

There are 3 different options for user operation mode, card only, card and password, valid code. The optioned used is common to all users.

Press: [3] [0 0] [#] valid card only
Press: [3] [0 1] [#] valid card and password
Press: [3] [0 2] [#] valid card or password

Setting Door Relay Strike Time

The door relay output can be operated as either normally opened or normally closed, a maximum current of 10 ampere can pass through the relay if used as normally opened or 5 ampere if normally closed. The door relay time can be set from 0 seconds to a maximum of 99 seconds. The factory default setting is 6 seconds and can be changed through the keypad.

Press: [4] [new time from 00-99 seconds] [#]

Setting Alarm Signal Output Time

Press: [5] [new time from 00-99 minutes] [#]

Setting Door Open Detection

Press: [6] [0 0] [#] to disable this function (factory setting)
Press: [6] [0 1] [#] to enable this function.

In order for this feature to work, door contacts must be connected. There are 2 programming functions that work together in this mode.

a.) If door not closed after opening, keypad buzzer sounds.
b.) If door forced open, keypad buzzer sounds and sends alarm signal.

Setting Security Arrangement BC-3100

There are two levels of keypad security available for the BC-3100.

Press: **7** **0 1** **#** entered 4 wrong passwords in succession, the keypad is locked for 10 minutes.

Press: **7** **0 2** **#** entered 4 wrong passwords in succession, the keypad activates and alarm signal.

To disable this feature:
Press: **7** **0 0** **#** factory default setting.

Setting Security Arrangement BC-3000

There are two levels of keypad security available for the BC-3000.

Press: **7** **0 1** **#** to read 10 invalid cards or valid cards, then enter 4 wrong passwords in succession, the keypad is locked for 10 minutes.

Press: **7** **0 2** **#** to read 10 invalid cards or valid cards, then enter 4 wrong passwords in succession, the keypad activates and alarm signal.

To disable this feature:
Press: **7** **0 0** **#** factory default setting.

Resetting To Factory Default Setting

To revert all settings to the factory default values then the Non Volatile Memory (Eeprom) must be reset.

Reset Non Volatile Memory by switching of the power and placing the jumper connector onto the pins 1 & 2 as per figure 2. After switching power on remove jumper, the BC-3000 will give a beep and is now reset to factory default values.

Changing User Password Code BC-3100

Press: ***** **user passoword** **#** **user identification number** **#** **new passoword** **#** **re-enter new password** **#**

Changing User Password Code BC-3000

The factory default setting for each user password code 1234, this can be modified so that each user has a unique individual 4 digit code.

Press: ***** **read user card** **user passoword** **#** **new password** **#** **re-enter new password** **#**

Using Password Code to release the door

Press: **user passoword** #

Technical Specification

DC Supply Voltage:	Low voltage input 9-14Vdc unregulated
Current Consumption:	100mA @ quiescent maximum
Door Relay:	5Amp 12Vdc
Tamper Protection:	Negative loop, normally closed
Codes BC-3100:	1 Master, 100 codes .
Codes BC-3000:	1 Master, 1000 cards and 1000 codes .
Keypad:	12 keys, 1 bell push button, 3 LED status indicators
Card Types:	EM or EM compatible (BC-3000)
Induction Distance:	5-15cm (BC-3000)
Wiring Connections:	Electric lock Remote door control Door open detection External door bell External Alarm
Memory:	Non volatile eeprom memory
Operating Temperature:	0°C to 60°C (32°F to 140°F)
Keypad Housing:	ABS high impact plastic
Dimensions:	120mm x 115mm x 23mm
Weight:	175g

Package Listing

Name	Model no.	Quantity	Remark
Digital Keypad	BC-3100/BC-3000	1	
User Manual	BC-3100/BC-3000	1	
Self Tapping Screws	∮ 4.5mm×27 mm	4	Used for fixing
Self Tapping Screws	∮ 2.6mm×7.5 mm	1	Used for front case and back case
Pastern Stopper	∮ 6mm×27 mm	4	Used for fixing